Serial No. 10/642,961

Title: FLASH CELL FUSE CIRCUIT

AMENDEMENTS TO THE CLAIMS

- 1. (original) A method of operating a memory device, comprising:
 - deactivating a first field-effect transistor having a first source/drain region coupled to a fuse latch input node and a second source/drain region coupled to a local bit line of a memory array of the memory device;
 - activating a second field-effect transistor having a first source/drain region coupled to a first potential node and a second source/drain region coupled to the fuse latch input node; and
 - resetting a fuse latch in response to deactivating the first field-effect transistor and activating the second field-effect transistor, wherein the fuse latch has an input coupled to the fuse latch input node and an output coupled to an output node.
- 2. (original) The method of claim 1, wherein activating the second field-effect transistor occurs subsequent to deactivating the first field-effect transistor.
- 3. (original) The method of claim 1, wherein activating the second field-effect transistor and deactivating the first field-effect transistor occur substantially simultaneously.
- 4. (original) The method of claim 1, wherein the first field-effect transistor is an n-channel field-effect transistor and the second field-effect transistor is a p-channel field-effect transistor.
- 5. (original) The method of claim 1, wherein the fuse latch includes a pair of reverse-coupled inverters.
- 6. (original) The method of claim 1, wherein the method is performed automatically upon power-up of the memory device.
- 7. (original) A method of operating a memory device, comprising:

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- deactivating a first field-effect transistor having a first source/drain region coupled to a fuse latch input node and a second source/drain region coupled to a local bit line of a memory array of the memory device;
- activating a second field-effect transistor having a first source/drain region coupled to a first potential node and a second source/drain region coupled to the fuse latch input node;
- resetting a fuse latch in response to deactivating the first field-effect transistor and activating the second field-effect transistor, wherein the fuse latch has an input coupled to the fuse latch input node and an output coupled to an output node; and deactivating the second field-effect transistor subsequent to resetting the fuse latch.
- (original) The method of claim 7, further comprising:
 activating the first field-effect transistor subsequent to deactivating the second field-effect transistor; and
 driving a word line of a floating-gate memory cell coupled to the local bit line.
- 9. (original) The method of claim 8, wherein driving the word line occurs while a data path associated with the local bit line is unselected.
- 10. (original) The method of claim 8, further comprising:latching a data value of the floating-gate memory cell in the fuse latch.
- 11. (original) The method of claim 8, further comprising:
 reading the data value of the floating-gate memory cell using a data path of the memory
 array.
- 12. (original) The method of claim 8, further comprising: writing a data value to the floating-gate memory cell using a data path of the memory array.

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13. (original) The method of claim 7, wherein the method is performed automatically upon power-up of the memory device.

- 14. (original) A method of operating a memory device, comprising:
 - generating a first control signal indicative of whether it is desired to set a fuse latch of a first fuse circuit to some fuse data value without regard to a data value of a floating-gate memory cell associated with the first fuse circuit;

generating a second control signal indicative of the fuse data value;

- deactivating a first field-effect transistor and a second field-effect transistor when the first control signal has a first logic level, wherein the first field-effect transistor is coupled between a first potential node and an output node of the fuse circuit, and wherein the second field-effect transistor is coupled between a second potential node and the output node of the fuse circuit; and
- selectively activating either the first field-effect transistor or the second field-effect transistor in response to a logic level of the second control signal when the first control signal has a second logic level.
- 15. (original) The method of claim 14, wherein generating the first control signal comprises combining a plurality of address match signals in a NAND gate and combining an output of the NAND gate with an enable signal in a NOR gate.
- (original) The method of claim 15, further comprising:
 combining the output of the NAND gate with a second enable signal in a second NOR gate, thereby generating a third control signal; and
 applying the third control signal to a second fuse circuit.
- 17. (currently amended) A method of operating a memory device, comprising:

 resetting the fuse latch to an initial fuse data value prior to transferring the cell data value

 to the fuse latch;

programming a floating-gate memory cell to a cell data value using a data path of the memory device; and

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transferring the cell data value to a fuse latch.

- 18. (canceled)
- (currently amended) The method of claim 17 18, wherein resetting the fuse latch further 19. comprises:

isolating the floating-gate memory cell from an input of the fuse latch; and applying a supply potential to the input of the fuse latch.

- (original) The method of claim 19, wherein transferring the cell data value to the fuse 20. latch further comprises:
 - isolating the input of the fuse latch from the supply potential; coupling the floating-gate memory cell to the input of the fuse latch; and applying a read voltage to a gate of the floating-gate memory cell.
- 21. (original) The method of claim 20, wherein the read voltage has a potential level sufficient to activate the floating-gate memory cell if it is erased, but insufficient to fully activate the floating-gate memory cell if it is programmed.
- 22. (original) The method of claim 17, further comprising: setting the fuse latch to a data value without regard to, and without disturbing the data value of, the floating-gate transistor.
- (original) The method of claim 17, wherein the method is performed automatically upon 23. power-up of the memory device.